S/081/61/000/021/092/094 B106/203

AUTHORS:

Shpilevskaya, I. N., Akhmedov, K. S.

TITLE:

Examination of relaxation properties of polyvinyl-chloride

gels in chloro benzene and dichloro ethane

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1961, 504, abstract

21R34 (Uzb. khim. zh., no. 3, 1961, 29 - 35)

TEXT: The deformation properties of polyvinyl-chloride gels in dichloro ethane and chloro benzene as a function of their concentration were examined in an apparatus with coaxial cylinders, type Shvedov apparatus. The numerical values of the rigidity modulus (E₁) and the elasticity modulus (E₂), the real relaxation viscosity (γ_1) and the viscosity of elastic deformation (γ_2), as well as the relaxation periods were calculated. It was shown that with rising concentration of polyvinyl-chloride gels in chloro benzene and dichloro ethane the values of the elasticity-viscosity constants increase. For gels in chloro benzene, this increase is higher than in dichloro ethane. This fact points to a higher intermolecular energy of interaction of the Card 1/2

Examination of relaxation ...

S/081/61/000/021/092/094 B106/B203

molecules of polyvinyl chloride in chloro benzene and to their lower solvation in this solvent. [Abstracter's note: Complete translation.]

Card 2/2

AKHMEDGV, K.S.; SHPILEVSKAYA, I.N.

Temperature influence on the viscosity and mechanical properties of poly (vinyl chloride) solutions. Uzb.khim.zhur. no.4:42-49 (MIRA 14:8)

l. Tashkentskiy gosudarstvennyy universitet V.I.Lenina. (Ethylene)

S/081/62/000/020/036/040 B144/B101

AUTHORS:

-Shpilevskaya, I. N., Akhmedov, K. S.

TITLE:

Effect of plasticizers on the structural-mechanical

properties of polyvinyl chloride gels

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1962, 590, abstract 20R12 (Uzb. khim. zh., no. 6, 1961, 31-35

Summary in Uzb.])

TEXT: The effect of plasticizer additions (PL) (0-50%) of dimethyl phthalate and dibutyl phthalate on the viscoelastic properties of 5% gels, and of dimethyl phthalate, diethyl phthalate, dibutyl phthalate and tricresyl phthalate on the shear strength of 8% polyvinyl chloride (FVC) gels in dichloro ethane and chloro benzene is investigated. It is shown that addition of PL to dichloro ethane (a good solvent for PVC) increases the viscoelastic parameters of 5% PVC gels; the shear strength of the 8% gel rises with increasing volume concentrations of PL in the order tricresyl phosphate > dibutyl phthalate > diethyl phthalate > dimethyl phthalate. In PVC gels in chloro benzene (poor solvent for PVC) the

Card 1/2

Effect of plasticizers on ...

S/081/62/000/020/038/040 B144/B101

nature of the PL effect depends on their concentration (additions of \$10% dibutyl phthalate and of 50% tricresyl phosphate show a gelating effect increasing the viscoelastic characteristics and the shear strength, additions of \$10% dimethyl phthalate, diethyl phthalate and dibutyl phthalate reduce the above-mentioned parameters). [Abstracter's note:

Card 2/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

AKHREDOV, K.S.; SHPILEVSKAYA, I.N.

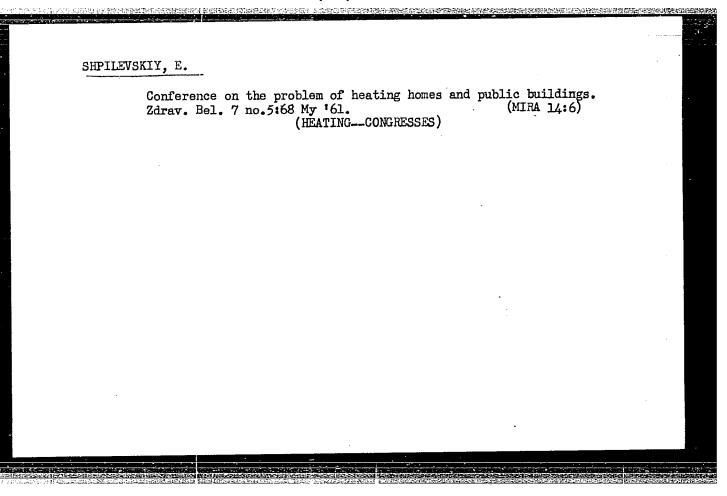
Structural and mechanical properties of concentrated solutions and gels of polyethylene, polyvinyl chloride, and perchlorovinyl. Vysokom.soe. 5 ne.6:914-920 Je '63. (MIRA 16:5)

1. Tashkentskiy gosudarstvennyy universitet im. V.I. Lenina. (Ethylene polymers)

AKHMEDOV, K.S.; SHPILEVSKATA, I.N.; MUFAZALOVA, R.S.

Structural and mechanical properties of concentrated solutions of the K-4 preparation in the presence of fillers: aluminium oxide, and silica gel, and the production of dusts. Nauch.trudy TashGU no.257.Khim.nauki no.12:64-58 164.

(MIRA 18:8)



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

SHPILLWSKIY, D.M.

Temperature conditions in large-panel houses with insulated roofs. Edray. Pol. 9 no.6.63-65 do '63. (MIRA 17:

1. Iz kafedry gigiyeny (zavoduyushchiy kafedroy - prof. 7.K. Mogilevchik) Einskogo meditsinskogo instituta.

L 27991-66 EWT(d)/FSS-2

ACC NRI' AP6005299 SOURCE CODE: UR/0413/66/000/001/0038/0038

INVENTOR: Skpilevskiy, E. P.

7/ 3

ORG: none

TITLE: A method for error detection and signal erasure in systems with repetition and comparison by elements. Class 21, No. 177469

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 38

TOPIC TAGS: error correction, information processing, data transmission

ABSTRACT: This Author's Certificate introduces a method for error detection and signal erasure in systems with repetition and comparison by elements. Error detection is accomplished without introducing additional redundancy into the original repeated signal by statistical analysis of the received signal in parallel with the usual comparison by elements. This analysis is done by counting the cases where the identical elements of the repeated combination of pulses do not all coincide in polarity. The number of these cases is determined as a function of error probability in the channel and the received signal is erased.

SUB CODE: 09/ SUBM DATE: 20Nov64

UDC: 621.394.181.1

Card 1/1 66

POIKOLZIN, P.S., kand.tekhn.nauk; LaGUTSKV, A.R., inzh.; NASONOV, A.Ya., inzh.; SHPILEVSKIY, V.A., inzh.

Mechanized timber drawing in roof control in Donets Basin mines. Bezop.truda v prom. 4 no.3:5-7 160. (MIRA 13:6)

(Donets Basin-Coal mines and mining)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

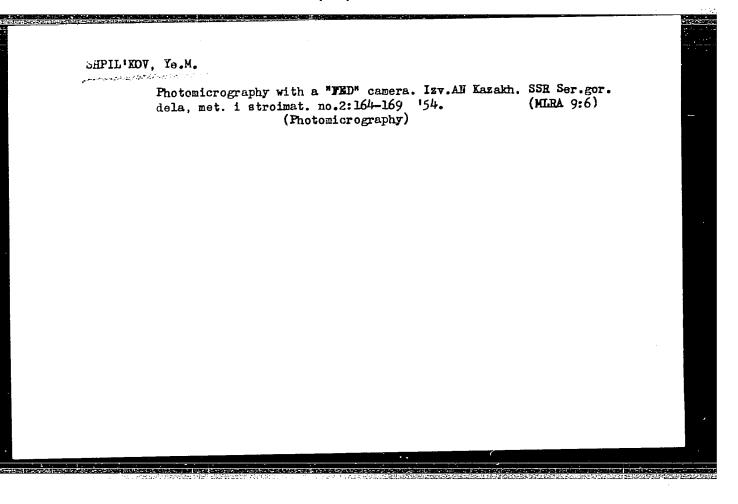
SEMENOV, S.S.; SHPIL'FOGEL', P.V.; ARSHANSKIY, A.M.; SHKLYAYEVA, A.P.

Concentrated shale as an organomineral filler in molded powders of phenolic plastics obtained by the emulsion method. Trudy VNIIT no.10:180-188 '61. (MIRA 15:3)

(Phenol condensation products) (Shale)

YENENKO, O.K.; OZEROV, I.M.; POLOZOV, V.F.; SHPIL'FOGEL', P.V.

Basic properties of the cyclon shale ash of the Central Electric Power station of the "Shale" Combine. Trudy VNIIT no.13:150-161 '64. (MIRA 18:2)

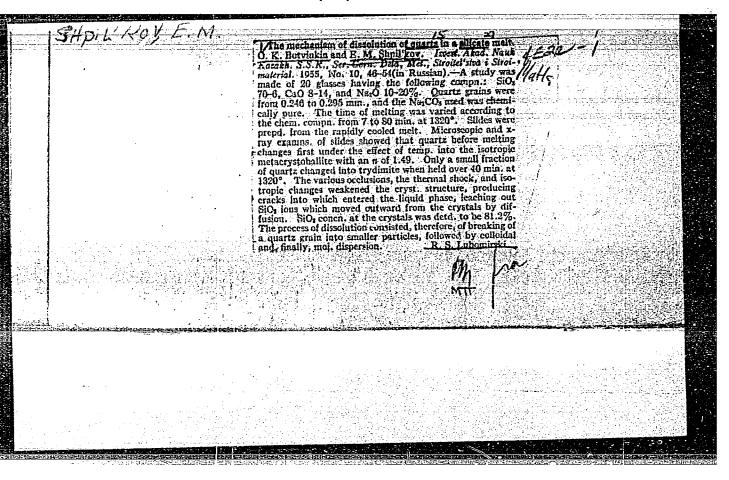


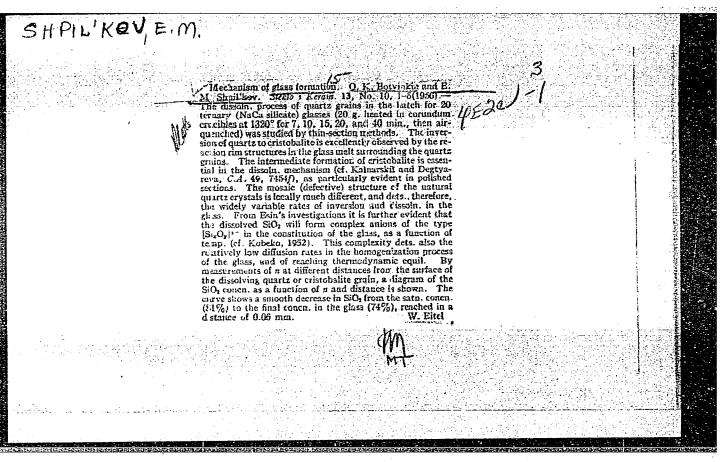
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

STEVLIE V. Ye. M.

"Minetics of Glass Formation in the Three-Component System Ma₂O-CaO-SiO₂." Cand Tech Sci, Inst of Metallurgy and Ore Dressing, Acad Sci Masakh SSR, Alma-Ata, 1955. (HL, No 10, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)





"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920020-9

BOTVINKIN, O.K.; SHPIL'KOV, Ye, M.

Kinetics of glass formation in a three-component system Na₂O CaO - SiO₂. Izv. AN Kazakh. SSR. Ser. gor. dela, met., stroi. i
stroimat. no.3:86-102 '57.

(Glass manufacture--Chemistry)

SHPIL'KOV, Ye.M.

Using vitrophyres in making foamglass. Trudy Inst. atroi. i
stroimat. AN Kazakh SSR 2:145-162. '59. (MIRA 12:10)

(Glass, Cellular)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

SHPIL'KOV, Ye.M.; SULEYMENOV, S.T.; SKOPINA, V.D.

Effect of calcium and magnesium oxides on the course of obtaining foamglass from vitrophyres. Trudy Inst. stroi. i stroimat. AN Kazakh SSR 2:167-178 '59. (MIRA 12:10)

(Glass, Cellular)

Industrial tests of vitrophyre from the Arkharly deposit to obtain cellular glass. Trudy Kazakh. fil. ASia no.2:174187 '60. (MIRA 15:2)

(Kazakhstan--Porphyry)

(Aggregates(Building materials))

SHPIL'MAN, I.A.

Characteristics of prospecting for buried structures. Geol.nefti i gaza 3 no.1:33-38 Ja '59.

1. Orenburgskiy sovnarkhoz.

(Petroelum geology) (Gas, Natural-Geology)

SHPIL'MAN, I. A., CAND GEOL-MIN SCI, "GEOLOGY, PETROLEUM - JEARNY BACALLES."

CONTESIO AND METHODS OF PROSPECTING OPERATIONS ON THE EASTERN SUMM OF THE MELEKES DEPRESSION." ORENBURG, 1960. (MAIN ADM OF GEOL AND MINERAL CONSERVATION RSFSR, ORENBURG GEOL ADM). (KL, 3-61, 208).

113

SHPIL'KO, V.N. Foregn bodies in the appendix. Sov.med.21 no.4:125 Ap '57. (MIRA 10:7) 1. Iz Krasnosel'kupskoy rayonnoy bol'nitsy Yamalo-Nenetakôgo natsional'nogo okruga. (APPENDIX (AMATOMY)—FOREIGN BODIES)

Endemic nature of congenital dislocation of the hip; preliminary report. Ortop.travm. i protez. 19 no.3:36-39 My-Je '58 (MIRA 11:7) 1. Iz Krasnosel'kupskoy rayonnoy bol'nitsy Yamalo-Nenetskogo natsional'nogo okruga, Tyumenskoy oblasti. (HIP, disloc. congen., endemicity (Rus))

SHPIL'KO, V.N.

Helminths in the population of the Taz Basin. Med.paraz. i paraz.bol. 28 no.4:418-421 Jl-Ag '59. (MIRA 12:12)

1. Iz Krasnosel'kupskoy rayonnoy bol'nitsy Yamalo-Nenetskogo natsional'nogo okruga. (HELMINTHIC DISEASES epidemiology)

SHPIL'KO, V.N.

Foreign bodies in the appendix. Khirurgiia 35 no.12:104-106
D'59.

1. Iz Krasnosel'kupskoy rayonnoy bol'nitsy Tamalo-Nenetskogo
natsional'nogo okruga.

(APPENDIX foreign bodies)

GUTNIK, S., neshtatnyy korrespondent (Kiyev); SHPILLER, V., neshtatnyy korrespondent (Kiyev)

Sever with built-in refrigerator. Nest.prom. i khud.promys. 4 no.3:

(MTRA 16:4)

(Refrigerators)

(Refrigerators)

(Furniture industry)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

Survey many

General Problems. RUMANIA/General Division.

A-1

Philosophy. Methodology.

Ref Zhur-Biologiya, No 20, 1957, 85001 Abs Jour

Shpil'man Author

Inst : Criticism of "Physiological Idealism" Title

According to the Doctrine of Lenin

: Ocrotirea sanat. R.P.R. 1955, 5, No 3, 84-93 Orig Pub

: Brief review of the history of "Physiological Idealism," as developed in J. Muller's Abstract

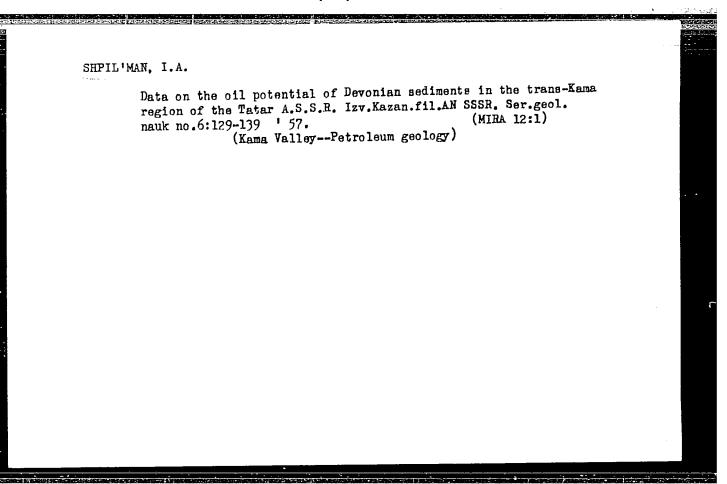
(1801-1858) works under the influence of I. Kant's agnosticism, and its methodological refutation in V.I. Lenin's "Materialism and Empiriocriticism."

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

PRITULA, Yu.A.; ABRIKOSOV, I.Kh.; AVROV, P.Ya.; KAZACHENKO, A.A.; KILIGINA, N.I.; KULIKOV, F.S.; MEL'NIKOV, A.M.; TATARINOV, A.G.; TROYEPOL'SKIY, V.I.; TSYPLENKOV, G.G.; SHPIL'MAN, A.I.; DAYEV, G.A., vedushchiy red.; LINDTROP, N.T., red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Volga-Ural oil-bearing region; oil potential] Volgo-Uralskaia neftenosnaia oblast'; neftenosnost'. Leningrad, Gostoptekhizdat, 1957. 175 p. (Leningrad, Vsesoiuznyi neftianoi nauchno-issledovatel'skii 1957. 175 p. (Leningrad, Vsesoiuznyi neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.104). (MIRA 16:8) (Volga-Ural region--Petroleum geology)



APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

MEL'NIKOV, A.M.; SHPIL'MAM, I.A.

Current problems relative to exploratory deep-well drilling in the Tatar A.S.S.R. Geol.nefti 2 no.10:17-24 0 '58. (MIRA 11:11)

1. Trest Tatneftegazrazvedka. (Boring)

SHPIL'HAN, I.A.

Formation of the Bol'shoy Kinel' bank and the outlook for oil and gas prospecting in adjacent areas. Geol. nefti i gaza 3 no.12:9-13 D '59. (MIRA 13:4)

1. Orenburgskiy sovnarkhoz.
(Bolshoy Kinel' Valley-Petroleum geology)
(Bolshoy Kinel' Valley-Gas, Natural-Geology)

SHPIL'MAN, I.A.

Results of geological prospecting in Orenburg Province in 1960 and 1961 and objectives for the coming year. Geol.nefti i gaza 5 (MIRA 14:10) no.9:19-25 S 161.

1. Orenburgskoye geologicheskoye upravleniye. (Orenburg Province--Petroleum geology) (Orenburg Province—Gas, Natural—Geology)

CIA-RDP86-00513R001549920020-9" APPROVED FOR RELEASE: 08/09/2001

KLUBOV, V.A.; KULAKOV, A.I.; SERENKO, M.N.; FOMINA, G.V.; SHPIL'MAN, I.A.

Tectonic pattern of Orenburg Province and adjacent regions in connection with the evaluation of oil and gas potentials.

Trudy VNIGNI no.34:5-39 '61. (MIRA 15:7)

(Orenburg Province-Petroleum geology)

(Orenburg Province-Gas, Natural-Geology)

VOROB'YEV, A.A.; MOZHAYEV, N.S.; OVCHARENKO, A.V.; SAVCHENKO, D.A.; SHPIL'MAN, I.A.

Plan for regional prospecting for oil and gas in Orenburg Province. Geol. nefti i gaza 6 no.12:37-41 D '62. (MIRA 15:12)

1. Orenburgskoye geologicheskoye upravleniye i trest Orenburgneftegazrazvedka.

(Orenburg Province—Gas, Natural—Geology) (Orenburg Province—Petroleum geology)

FOMINA, G.V.; SHPIL'MAN, I.A.; CHEREPAKHIN, S.D.

Petroleum and mas potentials of the Ural Mountain portion of Orenburg Province. Neftegaz. geol. i geofiz. no. 5:3-7 163. (MIRA 17:5)

1. Orenburgskoye geologicheskoye upravleniye.

BROD. I.O.; BEGISHEV, F.A.; GABRIELYAN, A.G.; OVANESOV, G.P.; SEYFUL'-MULYUKOV, R.B.; SHORNIKOV, B.Ya.; SHPIL'MAN, I.A.; KHANIN, I.L.

Oil and gas potential of the Volga-Ural region, the lower Volga Valley, and the Caspian salt-dome region as parts of the northern Caspian oil- and gas-bearing basin. [Trudy] NILneftegaza no.10:5-16 '63.

1. Nauchno-issledovatel skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosonosti; Upravleniya neftyanoy i gazovoy promyshlennosti Verkhne-Volzhskogo i Sredne-Volzhskogo sovetov narodnogo khozyaystva i i Orenburgskoye geologicheskoye upravleniye.

BAGIRYAN, G.V.; SHPIL'MAN, I.A.

Latest prospects for the development of geological prospecting and gas and oil production in Orenburg Province. Geol. i geofiz. no.5:9-13 '64. (MIRA 17:9)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR.

SHPIL'MAN, I.A.

Search for oil and gas pools in deeply buried structures and in zones of local tapering of reservoir beds. Geol.nefti i gaza 9 no.2:31-36 F 165. (MIRA 18:4)

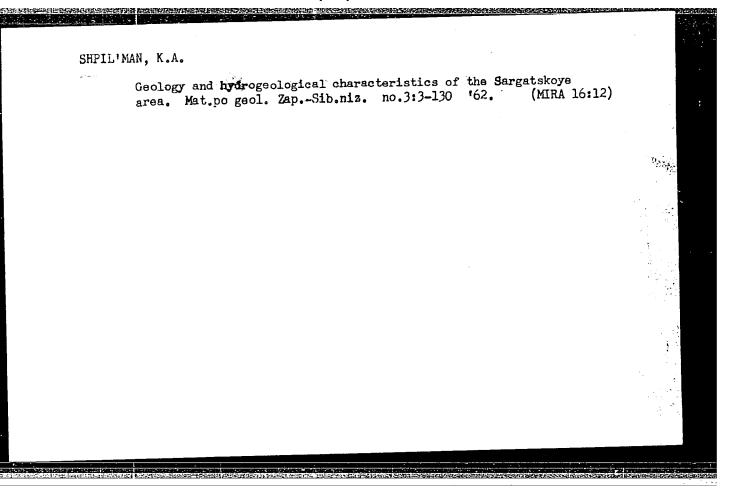
1. Orenburgskoye geologicheskoye upravleniye.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

KULAKOV, A.I.; FOMINA, G.V.; SHPIL'MAN, I.A.

Outlook for the development of oil and gas prospecting operations on the eastern slope of the Russian Platform in the area of Orenburg Province. Geol. nefti i gaza 9 no.9:8-12 S '65. (MIRA 18:9)

1. Orenburgneft', Orenburgskoye geologicheskoye upravleniye i Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.

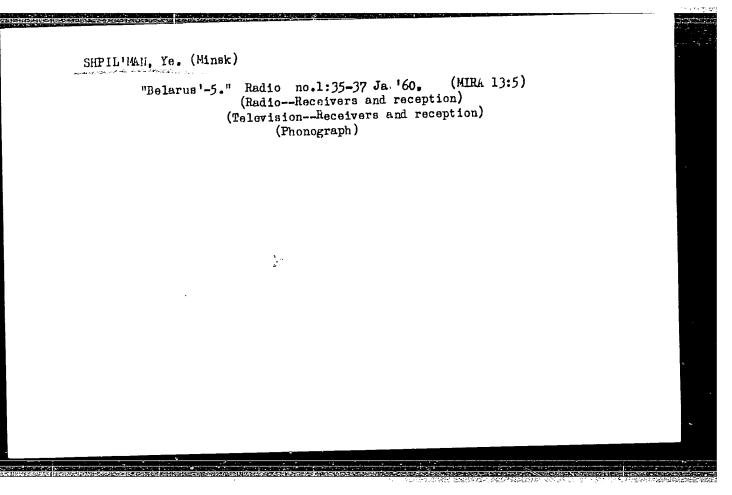


ZAPIVALOV, Nikolay Petrovich; SHPIL'MAN, Kal'man Abramovich;
GORBATOVSKIY, I.V., red.

[There will be a "Siberian Baku"] Budet sibirskoe Baku.
Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1963. 52 p.
(MIRA 17:3)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"



SHPIL'MAN, Yevgeniy Markovich; BUKHMAN, David Romanovich;
TRAVIN, A.A., otv. red.; KONDRAT'YEVA, V.P., red.

["Belarus'-110" television and radio-phonograph console]
Teleradiola "Belarus'-110." Moskva, Sviaz', 1965. 71 p.
(Biblioteka "Televizionnyi priem," no.21) (MIRA 18:11)

SHPIL'OVIY, M.I. [Shpyl'ovyi, M.I.]; ISHCHENKO, Y.O. [Ishchenko, I.O.], inzh.

Give the green light to recent developments. Mekh. sil'. hosp. 14 no.11:6-8 N'63. (MIRA 17:2)

1. Upravlyayushchiy Nemirovskim rayonnym ob"yedineniyem "Sil'gosptekhnika" Vinnitskoy oblasti (for Shpil'oviy).

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920020-9

SAPIL RAYN

UCSR/Physical Chemistry - Thermodynamics. Thermochemistry. Equilibrium. Physico-

chemical Analysis. Phase Transitions, B-8

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 331

Author: Kirillin, V. A., Sheyndlin, A. Ye., and Shpil'rayn, E. E.

Institution: None Moscow Power Eng. Inst,

Title: New Tables of Correlated Values for the Enthalpy and Specific Volume

of Steam

Periodical: Dokl. AN SSSR, 1955, Vol 105, No 3, 472-475; Teploenergetika, 1956,

No 1, 16-21

Abstract: On the basis of experimental data collected over the last few years

(chiefly at the All-Union Heat and Power Institute and the Moscow Power Institute) tables of correlated values for the enthalpy and specific volume of steam are presented for pressures up to 500 atm (in steps of 50 atm) and for temperatures up to 650° (in steps of 50°); (the existing tables, adopted in 1934, give values for the enthalpy and specific volume up to 300 atm and 5500, the values in the

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

KIRILLIN, Vladimir Alekseyevich; SHEYNDLIN, Aleksandr Yefimovich;
SHPIL'RAYN, E.E., redaktor; VCRONIN, K.P., tekhnicheskiy redaktor

[Thermodynamics of solutions] Termodinamika rastvorov. Moskva, Gos.
izd-vo, 1956. 272 p. (MLHA 9:7)

(Solutions(Chemistry)) (Thermodynamics)

"APPROVED FOR RELEASE: 08/09/2001 C

CIA-RDP86-00513R001549920020-9

Spli'rain, E. On problems of the theory of measure.

Usgehi Matem Nauk (N.S.): no 2(12), 179-188 (1946).

(Rossian)

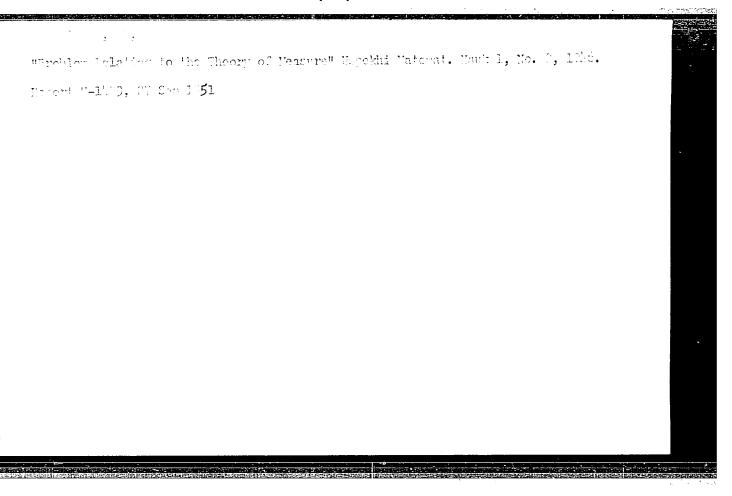
The author lists 13 unsolved problems most of which concern the existence of measures satisfying various conditions. Two typical such problems are: (1) does there exist a maximal translation invariant extension of Lebesgue measure on the line? and (2) does there exist a finite measure μ on the class of all Bord sets of a nonseparable metric space such that $\mu(E) = 0$ whenever E is a separable Bord set?

P. R. lichnes (Cheage, 19.)

Source: Mathematical Reviews.

Vol. 10, No. 1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"



SHPIL'RAYN, E. E., Engineer

"Experimental Investigation of the Thermodynamic Properties of Liquid Oxygen." Sub 26 Oct 51, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for science and engineering in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

SHPIL'RAYN, E.E., kand. tekhn.nauk; SOLDATKNKO, Yu.A., aspirant, red.

[Collection of problems in the thermodynamics of solutions] Sbornik zadach po termodinamike rastvorov. Red. IU.A. Soldatenko. Moskva, Mosk. energ. in-t, 1957. 71 p. (MIRA 11:7)

1. Kafedra inzhenernoy teplofiziki (for Shpil'rayn).
(Solution (Chemistry))

KIRILLIN, Vladimir Alekseyevich; SHEYNDLIN, Aleksandr Yefimovich; SHPIL'RAYN, Eval'd Emil'yevich; NIKOLAYEV, V.V., red.; MEDVEDEV, L.Ya., tekhn.red.

[Engineering problems in thermodynamics] Zadachnik po tekhnicheskoi termodinamike. Izd.2-oe, perer. Moskva, Gos.energ.izd-vo, 1957. 253 p. (MIRA 11:1)

(Thermodynamics--Problems, exercises, etc.)

SHUMYATSKIY, 5,Ya., kandidat tekhnicheekikh neuk; SHPIL'RAYN, E.E., kandidat tekhnicheekikh nauk.

Some problems on the thermodynamics of a liquid flow. Teploenergetika 4 no.9:95-96 S '57. (MERA 10:9)

(Fluid dynamics) (Thermodynamics)

MARGULOVA, T.In., prof., red.; SHPIL'RAYN, E.D., red.; VORONIN, K.P., tekhn.red.

[Problems of corrosion and heat exchange in liquid metals. Translation from American and British sources] Nekotorye voprosy korrozii i teploobmena v zhidkikh metallakh. Moskva, Gos. energ.izd-vo. 1958.

39 p. (MIRA 11:9)

(Corrosion and anticorrosives)
(Heat--Transmission)
(Liquid metals)

SOV/96-58-7-4/22

AUTHOR:

Sheyndlin, 2.72., Dr. Tech Sci., Shpilrayn, E.E., Cand. Tech Sci.

and Sychev, V.V., Engineer.

TITLES

The specific heat at constant pressure $c_{\mathbf{p}}$ of steam at the saturation line (Teployemkost' ep vodyanogo para na linii nasyshcheniya)

No.7, pp. 13-17 (USSR)

PERIODICAL:

Teploenergetika, 1958,

ABSTRACT:

The enthalpy of supersaturated steam is best calculated by integrating values of op on isohars from the saturation curve to the temperature at which the enthalpy is to be determined. However, as it is very difficult to determine co near the saturation curve, values are usually obtained by extrapolation, but this procedure is unreliable near the critical pressure. The authors, therefore, decided to calculate the ap of steam at the saturation line by a method

basically independent of experimental determinations of op for superheated steam. An equation is then written for the specific heat of steam at the saturation line; it includes terms for the specific heat of water at the saturation line at the same temperature, the latent heat of steam and its differential with respect to temperature; the specific volumes of dry saturated steam and water on the saturation line, and their partial differential with respect to temperature at constant pressure. This equation forms the basis of all the calculations. In using it, a large number of calorific and thermal data for water and steam have to be determined, but these

determinations can all be made more accurately than direct

Card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9" m S0V/96-58-7-4/22 The specific heat at constant pressure $c_{
m p}$ of steam at the saturation line.

determination of cp near the saturation line. The calorific and thermal data used in the present calculations are given in Table.1. The method of calculating each of the terms of the equation is then explained. Graphs of differentials of latent heat of steam, specific volume of steam and of water are given in Figs. 1., 2., and 3. The accuracy of the calculations was evaluated by the methods of the theory of errors. The accuracy of determination of the differentials was determined by an indirect method. The errors in each of the terms are then evaluated numerically and finally it is stated that the overall error in the determination of cp did not usually exceed 1 - 1.5%. The error is somewhat greater mear the critical region. Calculated values of cp from 170 - 380°C are displayed in Table.2, which also gives values recommended by the All-Union Thermotechnical Institute and percentage differences between the two sets of values. The calculated values are then compared with experimental values of several authors and a number of differences are found to exist which exceed the errors of calculation or of experiment in some regions. Further theoretical and practical investigations in these regions are

Card 2/3

The specific heat at constant pressure $c_{\mathbf{p}}$ of steam at the saturation line.

required to establish the reasons for the differences. There are 5 figures, 2 tables, 16 literature references (4 Soviet, 7 English and 5 German)

ASSOCIATION: Moskovskiy Energeticheskiy Institut (Moscow Power Institute)

1. Steam - Specific heat 2. Steam - Enthalpy 3. Steam - Pressure factors

Card 3/3

SAMUYLOV, Ye.V., kand.fiz.-matem.nauk, red.; SHPIL!RAYN, E.E., kand. tekhn.nauk, red.; SAMSONOV, V.G., red.; SMIRNOVA, N., tekhn.red.; REZOUKHOVA, A., tekhn.red.

[Motion of the nose section of long-range rockets; collected articles] Problemy dvizheniia golovnoi chasti raket dal'nego deistviia; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1959.
488 p. (MIRA 13:5)

(Rockets (Aeronautics))

ORLOV, A.A., kend.fiz.-matemat.neuk, red.; SHPIL!RAYN, E.E., kand.tekhn. neuk, red.; VLASOV, V.T., red.; IOVLEVA, N.A., tekhn.red.

[Scientific problems connected with artificial satellites; collection of articles] Nauchnye problemy iskusstvennykh sputnikov; sbornik statei. Moskva, Izd-vo inostr.lit-ry, 1959.
528 p. (MIRA 12:12)

(Artificial satellites)

"APPROVED FOR RELEASE: 08/09/2001 C

CIA-RDP86-00513R001549920020-9

05280

10(5)

SOV/170-59-7-11/20

AUTHORS:

Sheyndlin, A.Ye., Shpil'rayn, E.E., Sychev, V.V.

TITLE:

On the Heat Capacity C_{p} of Water and Water Vapor at Supercritical Pressures

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, 1959, Nr 7, pp 75 - 79 (USSR)

ABSTRACT:

There are several methods for working out graphs expressing relationships between heat capacity C_p and various factors. Ya. Havliček and L. Miskovskiy /Ref 97 proposed a method for analyzing experimental data on C_p by plotting the lines $C_p = {\rm const}$ in the coordinate system p - T. This method, as well as other existing methods, possesses some intrinsic drawbacks. The authors have worked out a new method which is based on the coordinate system: C_p versus p. This graph is shown on Figure 3 which is plotted by isochores. This made it possible (after smoothing the isochores) to obtain from this graph isobars of C_p as functions of V. Then the values of C_p are found from the C_p - C_p graph by isobars. The values of C_p corresponding to the round values of pressure are then obtained from these isobars and compiled into a table presented in the paper. This method was employed for analyzing the available experimental data on heat capacity C_p of water

Card 1/2

SHEYNDLIN, A.Ye., doktor tekhn. nauk; SHPIL'RAYN, E.E., kand. tekhn. nauk; SYCHEV, V.V., inzh.

Reference values of the specific heat of steam. Teploenergetika 6 no.12:80-83 D '59. (MIRA 13:3)

1. Moskovskiy energeticheskiy institut.
(Steam)

S/096/60/000/010/016/022

E194/E135

114100 AUTHORS:

Shpil'rayn, E.E., Fabrikant, V.A., Fedorova, I.P.,

Rumyantsev, A.M., and Detlaf, A.A.

Calculation of the Specific Heat of Alkaline Metal

TITLE: Vapours

PERIODICAL: Teploenergetika, 1960, No 10, p 95

Calculated values are given for the specific heat at constant pressure of vapours of alkaline metals and the thermodynamic functions are calculated. (Enthalpy, isobar-isothermal potential) of monoatomic and biatomic vapours in the temperature range 500 to 3500 °K for the ideal gas conditions. In determining the specific heat of monoatomic and biatomic vapours only the lower electronic level was taken into account; in calculating the static sums of biatomic vapour molecular oscillations and flexibility were allowed for. On this basis calculations were made of the constants of equilibrium and degree of dissociation of biatomic vapours of alkali metals as functions of temperature and pressure. In addition, the calculations were made in the above mentioned

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

S/096/60/000/010/016/022 E194/B135

Calculation of the Specific Heat of Alkaline Metal Vapours

temperature range of the specific heat of a reacting mixture of monoatomic and biatomic vapours both on the saturation line and in the superheated vapour region.

ASSOCIATION: Moskovskiy energeticheskiy institut
(Moscow Power Institute)

Card 2/2

VB

SHEYNDLIN, A.Ye., doktor tekhn.nauk, SHPIL'RAYN, E.E., kand.tekhn.nauk; SYCHEY/ V.V., inzh. Heat capacity Cp of water and steam at the saturation line. Teploene getika 7 no.7:23-27 J1 60. (MIRA 13:7) 1. Moskovskiy energeticheskiy institut. (Heat capacity) (Water--Thermal properties)

s/170/61/004/002/002/018 88624 BO19/BO60 Shpil'rayn, E. E., Asinovskiy, E. I. Calculation of the Thermodynamic Properties and the 11.3950 Construction of the is-Diagram of Alkali Metals 11.4100 Inzhenerno-fizicheskiy zhurnal, 1961, Vol. 4, No. 2, AUTHORS: TEXT: In view of the relatively scarce data available on the thermodynamic functions of alkali metals the nuthors calculated the thermodynamic functions. TEAT: In view or the relatively scarce data available on the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic: tions and set up the is-diagram. The following assumptions were made: TITLE: properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the thermodynamic func-properties of alkali metals the authors calculated the authors ca PERIODICAL: Critical parameters for sodium Pcr = 2750-3300)°K, Vcr = (0.14-0.15) g/cm², Tcr = (2750-3300)°K, Vcr = (1400-1500) kg/cm², Tcr = (1400-1500) kg/cm², T These values permit the assumption that the values of liquid metals satisfy the equation of state of ideal gases. The values of liquid metals was These values permit the assumption that the vapors of alkall metals was the equation of state of ideal gases. The volume of liquid metals was the equation of state of ideal gases, while enthalpy and enthropy dynamically taken to be independent of pressure, according to well-known thermodynamically as functions of pressure according to the pressu taken to be independent of pressure; while enthalpy and enthropy were estimated as functions of pressure according to well-known thermodynamic estimated as functions of pressure according to the liquid phases were estimated as functions of the liquid phases were estimated as functions. estimated as functions of pressure according to well-known thermodynamic relations. Moreover, the thermodynamic functions of the liquid phases were Card 1/3 CIA-RDP86-00513R001549920020-9" APPROVED FOR RELEASE: 08/09/2001

88624

Calculation of the Thermodynamic Properties and $\frac{5}{170/61/004/002/002/018}$ the Construction of the is-Diagram of Alkali B019/B060 Metals

of the isotherms and isobars of overheated vapor also changes. There are 2 figures and 24 references: 9 Soviet, 11 US, and 2 German.

ASSOCIATION: Energeticheskiy institut, g. Moskva (Institute of Power Engineering, Moscow)

SUBMITTED: September 20, 1960

Card 3/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9" s/170/62/005/004/005/016 B111/B102

Calculation of the latent ... oration heat of alkalies are incorrect because dimerization has not been taken into account. For lithium, sodium, and potassium, the following

taken i correct	nto account values are Atomic weight	given: Molar evaporation heat, kcal/mole	Specific evaporation heat, kcal/kg
Li Na K	6,940 22,991 39,100	36,3 24,1	4636 926 473 of the individual meta

These values hold for the boiling point of the individual metals. are 1 table and 16 references: 5 Soviet and 11 non-Soviet. The four most recent references to English-language publications read as follows: K. K. Kelley, Bur. of Mines., Bull. 383, Washington, 1935; L. Quill, The chemistry and metallurgy of miscellaneous materials, 1950; R. Lyon, Handbook on Liquid Metals Suppl., Washington, 1950; W. H. Evans et al., J. Res. Nat. Bur. Stand., 55, 83, 1955.

Laboratoriya vysokikh temperatur AN SSSR, g. Moskva (Laboravory of High Temperatures AS USSR, Moscow) Card 2/3

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920020-9"

SHPIL'RAYN, E.E.; STEFANOV, B.I.

Apropos of L.A. Browkin's article "Effect of an increase in the measurable mean temperature and the heat content of certain insulated bodies in the process of temperature balancing.

Inzh.-fiz. zhur. 5 no.6:126-131 Je '& (MIRA 15:12)

(Temperature-Measurement)

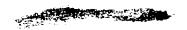
(Enthalpy)

(Browkin, L.A.)

KAZAVCHINSKIY, Ya.Z., prof.; KESSEL'MAN, P.M., kand. tekhn. nauk; KIRILLIN, V.A., akademik; RIVKIN, S.L., kand. tekhn. nauk; SYCHEV, V.V., kand. tekhn. nauk; TIMROT, D.L., prof.; SHEYNDLIN, A.Ye., prof.; SHPIL'RAYN, E.E., dots.; BUL'DYAYEV, N.A., tekhn. red.

[Heavy water; its thermophysical properties] Tiazhelaia voda; Teplofizicheskie svoistva. Moskva, Gosenergoizdat, 1963. 255 p. (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut vysokikh tomperatur pri Moskovskom energeticheskom institute (for Kirillin, Sychev, Timrot, Sheyndlin, Shpil'rayn). 2. Vsesoyuznyy nauchno-issledovatel'skiy teplotekhnicheskiy institut imeni F.E. Dzerzhinskogo (for Rivkin). 3. Odesskiy institut inzhenerov morskogo flota (for Kazavchinskiy). 4. Odesskiy tekhnologicheskiy institut (for Kessel'man).



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920020-9

<u>L 10753-63</u> EPF(c)/EWP(q)/EWT(m)/BDS-AFFTC/ASD--Pr-4--JD/JW ACCESSION NR: AP3003051 S/0170/63/000/006/0074/0077

AUTHOR: Shpil'rayn, E. E.; Zvereva, A. M.

TITLE: Experimental assembly for studying vapor pressures of alkali metals at high temperatures

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 6, 1963, 74-77

TOPIC TAGS: alkali-metal vapor pressures, high temperatures

ABSTRACT: An instrument consisting primarily of a U-shaped tube was developed for determining the vapor pressures of alkali metals at high temperatures. The steel left leg is closed and electrically heated; the glass right leg is connected to a pressure gauge and to a system for metered injection or withdrawal of argon. The tube is evacuated to 10^{-1} newton/m², the metal specimen is injected through a valve, and the steel leg is heated to the desired temperature. During temperature equalization, the glass leg is maintained under argon at a

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001549920020-9"

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ACCESSION NR: AP3003051

pressure higher than the vapor pressure so that the steel leg is entirely filled but the level in the glass leg reaches to only about one-third of the leg. After temperature equalization the argon pressure is gradually lowered until a stepwise increase of the level in the glass leg is observed. The pressure-gauge reading at this point corresponds to the vapor pressure. The instrument was used for determining the vapor pressure of Na at 900-1300K. Scattering of the experimental points did not exceed 2.5×10^2 newton/m². If the metal leg is made of a high-melting alloy, the instrument can also be used for determining vapor pressures at higher temperatures. Orig. art. has: 2 figures.

ASSOCIATION: Institut vy*sokikh temperatur pri MEI, Moscow (High Temperature Institute, MEI)

SUBMITTED: 21Jan63

DATE ACQ: 22Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 002

Card 212

ACCESSION NR: AP4004136 S/0294/63/001/002/0173/0176

AUTHORS: Shpil'rayn, E. E.; Yakimovich, K. A.

TITLE: Experimental installation for determining the density of liquid metals

SOURCE: Teplofizika vy*sokikh temperatur, v. 1, no. 2, 1963, 173-176

TOPIC TAGS: liquid metal, density, liquid metal density, specific weight, high temperature, dilatometric method, pycnometric method, physical property, heat transfer fluid, heat transfer, pycnometry, dilatometry, liquid metal density, liquid metal specific gravity, specific gravity

ABSTRACT: In view of the advantages of the pycnometric method over other known methods for determining the density of liquid metals at high temperatures and in view of the methodological difficulties in-

Card 1/43

ACCESSION NR: AP4004136

ASSOCIATION: Nauchno-issledovatel'skiy institut vy*sokikh tempera-

tur (Scientific Research Institute of High Temperatures)

SUBMITTED: 28Jun63

DATE ACQ: 26Dec63

ENCL: 01

DATE ACQ: 26Dec63 NO REF SOV: 006

OTHER: (Ca)

Card 3/#3

ACCESSION NR: AP4044521

outer sample diameters. For a narrow temperature difference a corresponding expression was developed. The analytical basis of the method proposed involves measuring the effective radiation coefficients for the sample and an outer protective screen. Optical pyrometer OP-48 was used for temperature measurement, and electrical means were employed to measure heat flow; straightening strain was measured by means of the low-resistance potentiometer PMS-48. Experimental relative errors were on the order of 11 to 18%. It was noted that the source of largest error lay in temperature measurement. Experimental data were plotted and results obtained by both large and small temperature gap formulae were compared. A schematic diagram of the test apparatus is shown. Orig. art. has: 5 figures and 6 equations.

ASSOCIATION: Nauchno-issledovatel'skiy institut vy*sokikh temperatur (Scientific Research Institute of High Temperatures)

SUBMITTED: 26Apr64

ENCL: 00

SUB CODE: TD

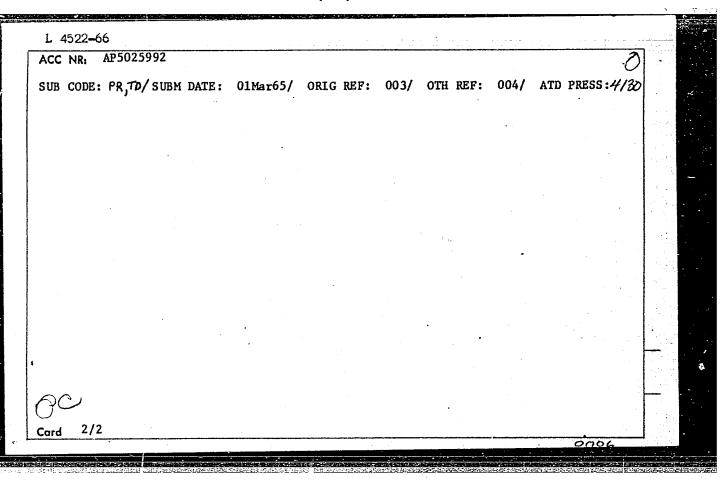
NO REF SOV: 007

OTHER: 016

Card 2/2

lude the <u>liquid state of m</u> l resistances due to admix rt. has: 2 figures, 5 for	etals. b Specific calculati ture of sodium and potassi mulas, and 2 tables. dovatel skiy institut vyso	f solids can be extended to in- ions are made for the addition- lum in liquid lithium. Orig. 27 okikh temperature (Scientific	
URMITTED: 04Jul64	encl: 00	SUB CODE: EM, MM	
R REF SOV: 003	OTHER: 010		
	이 하는 그는 경우를 위하다는 물을 하였다.	그렇다는 그리가 있는 것 같은 그는 작품이 다음	

EWT(1)/EPA(s)-2/EWT(m)/EPA(sp)-2/EPF(c)/EPF(n)-2/EWP(c)/EWA(d)/EPA(w)-2L 4522-66 AP5025992 FCS(f)/T-2/EWP(t) SOURCE CODE: UR/0294/65/003/005/0757/0764 EWP(b)/EWA(m)-2 IJP(c) JD/WW/JG/DJ/AT Shpil'rayn, E. E.; Yakimovich, K. A. AUTHOR: ORG: Scientific Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur) TITLE: Thermodynamics of an MHD power generator with a vapor-fluid SOURCE: Teplofizika vysokikh temperatur, v. 3, no. 5, 1965, 757-764 TOPIC TAGS: magnetohydrodynamics, MiD power generator, liquid metal fluid, energy conversion ABSTRACT: The thermodynamics of a vapor-fluid injector have been analytically investigated under the assumptions that 1) the whole injector as well as its separate parts are adiabatic; 2) the processes in the nozzle and in the exit cone are not isentropic; and 3) the nonisentropy of the processes in the mixing chamber is determined only by losses due to mixing. The formulas obtained show that the efficiency of the injector and also of the whole device depends on the ratio of the available enthalpy of the flowing fluid to the value of the latent heat of vaporization of the working material. Since calculations show that this ratio is not favorable for otherwise suitable materials, it is suggested that the efficiency of the device could be substantially increased by the use of two-component injectors. Orig. art. has: 26 formulas and 7 figures. [ZL] 1/2 UDC: 621.313.12:538.4:531.41



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920020-9

SOURCE CODE: UR/0294/66/004/002/0292/0293 35658=66 EWT(1) AP6014080 ACC NRI 42 Shpil'rayn, E. E. ORG: High Temperature Scientific Research Institute (Nauchno-AUTHOR: \mathcal{C} issledovatel'skiy institut vysokikh temperatur) TITLE: A thermodynamic method for determining the heat of dissociation SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 2, 1966, 292-293 TOPIC TAGS: gas dissociation, thermodynamic analysis, heat of ABSTRACT: It is assumed that the dissociated gas is sufficiently broken up that it can be considered as a mixture of ideal gases. Then, the degree of its dissociation, , and a given pressure, p, and temperature, T, is determined by the equation: (1) $\ln K_p = \ln p \frac{4\alpha^2}{1 - \alpha^2}$ $\Delta\Phi^{\circ\tau}(T) = 2[\Phi_1^{\circ}(T) - I_1^{\circ}(0)] - [\Phi_2^{\circ}(T) - I_2^{\circ}(0)] + Q_{\tau}^{\text{diss}}(0)$ Here 539.196.6:536.423.15 UDC: Card 1/2

SAVCHENKO, Z.I.; SHPILIREYN, M.I.

Effect of aminazine on the central nervous system according to data of biochemical studies. Trudy 1-go MMI 34:541-547 164.

(MIRA 18:11)

1. Kafedra psikhiatrii (zav. - zasluzhennyy deyatel nauki prof. V.M. Banshchikov), laboratoriya patokhimii mozga (zav. doktor biolog. nauk K.I. Pogodayev) 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

KUZNETSOV, Boris Vasil'yevich; SHPINAR, Ivan Ivanovich; SOLOV'YEV, N.I.,
retsenzent; KHOKHRYAKOV, G.B., retsenzent; TATISHCHEV, V.I.,
kandidat tekhnicheskikh nauk, redaktor; SHIENNIKOVA, Z.V., redaktor
izdatel'stva; KRASNAVA, A.K., tekhnicheskiy redaktor

[Perts of ship machinery] Detali sudovykh mashin. Pod red. V.I.
Tatishcheva. Moskva, Izd-vo "Rechnoi transport," 1957. 471 p.
(Marine engineering)

(MIRA 10:9)

Using unified tariffs in city motorbus transportation.

Avt. transp. 37 no.5:10 My '59. (MIRA 12:8)

1.Starshiy ekonomist Semopalatinskoy avtobazy No.1. (Motorbus lines--Fares)

SHPINDLER, D.L.

Shpindler, D.L. "The influence of the 'siliceous fire' on the motor, secretory, and excretory functions of the dog's stomach", Vestnik Akad. nauk Kazakh. SSR, 1948, No. 11, p. 57-64, (Resume in Kazakh), -Bibligo: 16 items.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

SHPINDLER, D.L.

Influence of silicon dust on motor, secretory, and excretory functions of the stomach in a dog. Izv.AN Kazakh.SSR.Ser.promgig.i profzab. no.1:70-85 '49. (MIRA 9:5) (Silicon--Toxicology) (Stomach)

SHPINDLER, D.L.; GORDIN, M.N.

Effect of cholagogues on the milk and butterfat yield of cows. Uch. zap. Kazakh. un. 41:186-187 '61. (MIRA 16:6) (CHOLAGOGUES) (DAIRY CATTIE—FEEDING AND FEEDS)

KOLBASOVA, V.K.; LYAMINA, V.P., starshiy nauchnyy sotrud.; MAKAROV, A.S.; SHEPELEVA, N.A., stershiy nauchnyy sotrud.; SHPINDLER, M.A., kand. ekon. nauk, red.; BELOV, M., red.; TROPINOVA, Z., tekhn.red.

[Workers' control and nationalization of the industry in the Kostroma Government; collection of documents, 1917-1919] Rabochii kontrol' i natsionalizatsiia promyshlennosti v Kostromskoi gubernii; sbornik dokumentov, 1917-1919 gg. Kostroma, Kostromskoe knizhnoe izd-vo, 1960. 223 p. (MIRA 14:5)

1. Kostroma (Province) Upravleniye vnutrennikh del. Arkhivnyy otdel. 2. Nachal'nik Gosudarstvennogo arkhiva Kostromskoŷ oblasti (for Kolbasov) 3. Nachal'nik Arkhivnogo otdela Upravleniya vnutrennikh del Kostromskogo oblispolkoma (for Makarov) 4. Arkhivnyy otdel Upravleniya vnutrennikh del Kostromskogo oblispolkoma (for Shepeleva, Lyamina) (Kostroma Province-Works councils)

(Kostroma Province--Industries)

EPF(n)=2/EWP(k)/EWT(m)/ETC(m)=6/T/EWA(d)/EWP(w)/EWP(v)/EWP(t)L 20785<u>-66</u> IJP(c)

ACC NR: AP6005747 EM/JTI/JG SOURCE CODE: UR/0128/65/000/010/0027/0031-

AUTHOR: Nekhendzi, Yu. A. (Doctor of technical sciences); Shpindler, S. S. (Engineer)

ORG: none

TITLE: On the theory of the alloying and composition of heat-resistant steels for highly stressed cast turbine blades

SOURCE: Liteynoye proizvodstvo, no. 10, 1965, 27-31

TOPIC TAGS: high alloy steel, turbine blade, metal casting, cooling, austenite. ferrite, high temperature strength

ABSTRACT: Austenitic steels of the Fe-Cr-Ni system containing various amounts of Cr and Ni, e.g. 20/10, 15/15, 20/20, 15/35, etc., additionally treated with Mo, W, Nb, Ti, Al, and other alloy elements which dissolve in the austenite and form hardening phases (carbides, carbonitrides, intermetallides), are widely used in industry for the temperatures 600-750°C. In this connection, and since the cooling rate of castings of Cr-Ni steel greatly affects their phase structure and particularly the formation of ferrite, the author describes new structural diagrams specially developed for highalloy steels of the Fe-Cr-Ni system as a function of the cooling rates of thin-walled castings of the gas-turbine-blade type, usually produced by the lost-wax process with pouring into ceramic molds heated to 800°C. In addition, formulas quantitatively re-

1/2 Card

UDC: 669.14.018.44-14

L 28756-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM	是關語:
ACCESSION NR: AP5004375 35 S/0056/65/048/001/0069/0071	
AUTHOR: Shpine;', V. S.; Aleksandrov, A. Yu.; Ryasnyy, G. K.; Okhlobystin, O. Yu.	
TITLE: Asymmetry of the doublet in Mossbauer resonance absorption spectra of some organic compounds of tin	
SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 48, no. 1, 1965, 69-71	
TOPIC TAGS: tin, Mossbauer effect, asymmetry, line width, doublet splitting	
ABSTRACT: The asymmetry of the doublet in the resonance absorption spectrum of (C6H ₅) ₂ SnCl ₄ , noted first by Bryukhanov et al. (ZhETF v. 43, 448, 1962), is considered. Various experiments carried out to find the cause of this asymmetry in a polycrystalline sample are described. The measurements were made with constant-velocity apparatus, using a source of Sn ¹¹⁹ in the form of SnO ₂ and Mg ₂ Sn. The gamma quanta were detected by a standard scintillation method using a resonant counter. The spectra obtained upon application of a magnetic field to the absorber showed that the doublet structure is actually due to quadrupole interaction. NMR magnetic measurements of this compound, made by I. F. Shchegolev of the In-	
Card 1/2	

L 28756-65

AP5004375 ACCESSION NR:

stitut fizicheskikh probem (Institute of Physical Problems) AN SSSR, have shown that there are no regions with unpaired spins in this molecule, and that the asymmetry of the doublet has no magnetic origin. Later investigations have established that after careful purification and recrystallization of the sample, carried out at Institut elementoorganicheskikh soyedineniy (Institute of Organoelemental Compounds) AN SSSR, the resonance absorption spectrum became a symmetrical doublet. It is concluded from the results that some tin-organic fractions are present in this compound and that the spectrum is the result of superposition of the two spectra, of (C2H4)2SnCl2 and (C6H5)2SnCl2*nH20. The asymmetry is obtained when the components near zero velocity coincide while the other two are shifted somewhat relative to each other. "We thank I. F. Shchegolev for the NMR measurements." Orig. art. has: 1 figure.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta (Institute of Nuclear Physics, Moscow State University)

SUBMITTED: 03Jul64

ENCL:

SUB CODE: NP, IC

NR REF SOV:

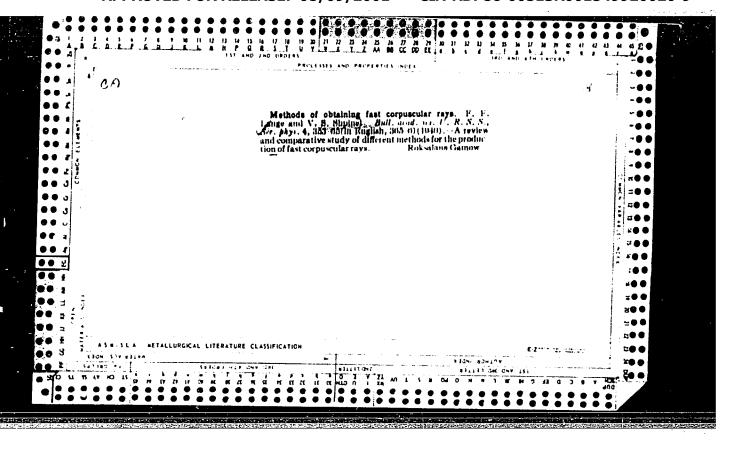
000 OTHER:

Card 2/2

SHPINEL!, G.M.

Organizing blood transfusion under polyclinic conditions. Vrach. delo no. 3:115-117 Mr '61. (MIRA 14:4)

l. Poliklinicheskoye otdeleniye Chetvertoy L'vovskoy gorodskoy bol'nitsy (nauchnyy rukovoditel' - prof. I.I. Fedorov).
(BLOOD-TRANSFUSION)



"APPROVED FOR RELEASE: 08/09/2001

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USSR/Geiger-Mueller Counters X-rays - Measurements Nov 1946

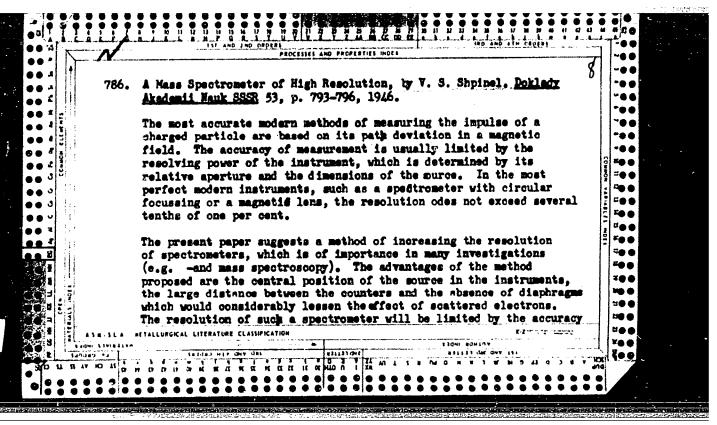
"A Study of the Operation of Geiger-Muell er Counters Under Intensive Radiation from an Impulse Source," F. F. Lange, V. S. Shpinel', M. I. Korsunskiy, 8 pp

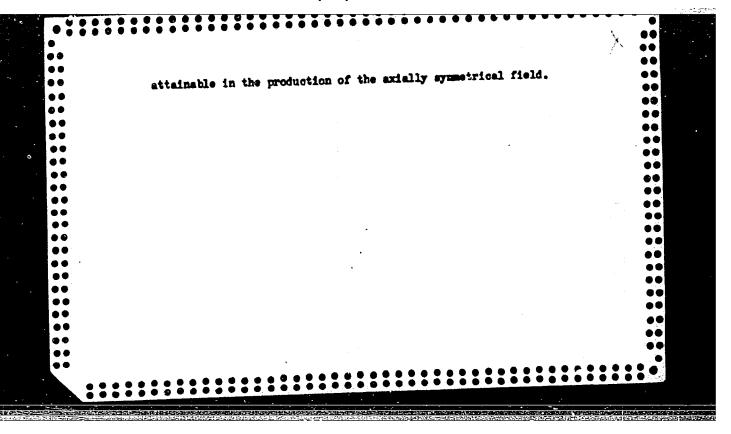
"Zhur Eksp i Teor Fiz" Vol XVI, No 11

Investigation of combined operation of an impulse set and of Geiger-Mueller counters, showing that under conditions of intensive impulse x-ray radiation falling on the counter the installation is capable of measuring short-period activities as low as 5.10-4-10-3 sec.

PA 13T54

Physical Tech. Inst., Acad. oci. Urkrainian SS., -1946-.





SHPINEL', V. S.		-		ра 164Т	66			
	mitted 29 Apr 49.	aversion li	USSR/Physics - Spectrometer Jul 50 (Contd)	Constructed and tested subject spectrometer with cross-sectional magnetic field of axial symmetry. Electrons emitted by source in field's center are collected to maximum orbit where recording apparatus is located (G-M counter or one operating on coincidence.) Spectrometer gives a half width of	"Zhur Tekh Fiz" Vol XX, No 7, pp 834-846	"Magnetic Spectrometer of Great Resolving Power for the Electron Microscope," V. S. Shpinel', Moscow State U imeni Lomonosov	USSR/Physics - Spectrometer Electron Microscope	
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SHPINEL!, V. S.

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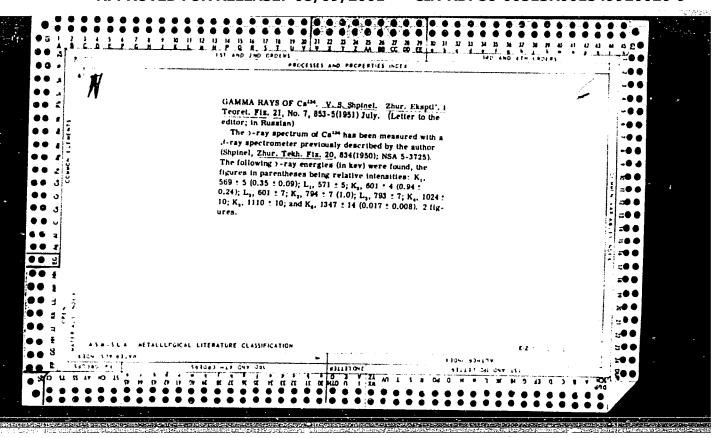
USSR/Nuclear Physics - Conversion Thorium 1 May 50

"Conversion on the Subgroups of the L-Shell," V. S. Shpinel', N. V. Forafontov, Moscow State U imeni M. V. Lomonosov

"Dok Ak Nauk SSSR" /ol LXXII, No 1, pp 49-52

Attempts to solve problem of measuring ratio of coefficients of conversions on subgroups of L-shell for gamma-transition of 238 kev in ThC nucleus. Submitted 3 Mar 50 by Acad D. V. Skobel'tsyn.

165149



SHPINEL, V. S.	(CA 47 no. 21: 11020 '53)	This data was used for evaluation of cited ThC" nucleus. Authors acknowld L. V. Groshev's helpful discussion. 12 Oct 50.	USSR/Nuclear Physics - Conversion Electrons (Precise beta spectrometer with transversal runiform field of axial symmetry was used for measurement of conversion line, produced by transition of hv = 287 keV in "ThC" nucleus, coiling because of preceding alpha decay. pected widening of conversion line did not a figure of the conversion line did not a figure and the conv	"Zhur Eksper 1 Teoret Fiz" Vol XXI, N 1127-1131	"Width of Gamma Lines and Dopple Lines of Conversion Electrons," R. I. Moshkina, Moscow State U	USSR/Nuclear Physics - Conversion Electrons	
1971195		ition of life of ex- acknowledges Prof ission. Submitted	s (Contd)	transversal non- y was used for , produced by gamma Inc" nucleus, re- lipha decay. Ex- line did not appear. 197195	I, No 10, pp	er Widening of V. S. Shpinel,	0ct 51	

SHPINEL, V. S. decay scheme of these elements.
10 Feb 51. 1,100 keV. Beta-spectrum of Nb95 is simple 198191 equal energy of 730-750 keV. Plots probable Mb95 of 240 KeV is noticeable. tions emitted by Zr95 and Mb95 version peak from isomeric transition of with beta-spectrometer with thin magnetic lens. Beta-spectrum of Zr95 is complex with upper "A Series of Successive Radioactive Transitions $2r^{95} \rightarrow \text{Mb}^{95} \rightarrow \text{Mo}^{95}$," V.S. Shpinel, Moscow State U with upper limit 148 ± 5 keV; a weak concontains 2 lower intensity spectra ~600 and Preformed radiation study of a series of successive transitions $Zr^{95} \rightarrow Nb^{95} \rightarrow Mo^{95}$ "Zhur Eksper i Teoret Fiz " Vol XXI No 12, pp 1370-1375 USSR/Nuclear Physics - Radioactive limit of 365 ± 10 KeV and 95% intensity and USSR/Nuclear Physics - Radioactive Transitions (Contd) Transitions and Nb⁹⁵ have nearly Genma-radia-Submitted 198191 Dec 51 Dec: 51